Nándor Majla
Software Developer

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I develop Android apps using Java/Kotlin. I also code in Python, often open-sourcing my projects. I'm a full time Linux user and maintain my own system. I'm interested in cybersecurity and want to learn more about it.

Work Experience

2020 - Current • Android Developer at Accenture

As a member of an international team, I'm responsible for developing and maintaining applications. I've implemented user interfaces, connected and tested APIs, assisted with translations, and created documentation. I also resolved issues such as git clone failing due to a blocked port.

2020 • Android Internship at Accenture

I was responsible for developing an Android application for the renting of company-owned vehicles. I learned web requests, database management, and design patterns.

2019 • Internship at Accenture

In a team with another intern, I was responsible for developing a Windows Forms application in C#. This let me hone my communication and version control skills while also exposing me to a system I had not used before.

Notable Projects

2022 • Arch Installation Script & Dotfiles

Using my Vim script, I wrote step-by-step instructions for installing Arch Linux, replicating my custom build. I tested it using virtual machines.

2022 • Vim Scripts

I wrote a script that replicates Emacs' Org mode, allowing the user to export code blocks from Markdown documents and even live-preview them while editing.

2022 • Anki Templates & Joplin-To-Anki Script

I created a handful of card templates for the flashcard-based studying tool Anki. I also wrote a tool that intelligently exports, imports, and compares between Markdown notes and Anki cards.

2021 • My Website

I created and configured my personal website. It's hosted on Github Pages with a custom domain.

2021 • Project Exodos (BSc Thesis)

My BSc thesis was based on developing and using a program employing neural networks to classify information about computer usage for time tracking purposes. It collects data about the user in various ways, then analyzes it using statistical methods such as Principal Component Analysis. This data is fed into a Multilayer Perceptron model, allowing the user to log and visualize how they spend their time at the computer.

2020 • CoolMaze (Pathfinding Algorithm Visualization)

A fun little animation that randomly generates a solvable maze and traverses through it using pathfinding algorithms such as DFS or BFS.

2020 • Weather Patterns Visualization

I submitted my work to Székelydata about visualizing historical weather patterns. I was a finalist and tied for 3rd place. My software cleaned, summarized, and visualized large amounts of weather data over a map.

2017 • 2D Graphics Engine

As a learning project, I created a C++ library for creating 2D games using OpenGL. I used SDL as a cross-platform window solution, and GLSL for programming video card shaders.

Education

2018 - 2022 • BSc • Sapientia Hungarian University of Transylvania

Databases • OOP • Functional Programming • Operating Systems • Probability • Statistics • Android • Graph Theory • UI/UX • C# • Computer Networks • Discrete Mathematics • Cryptography

Majored in Computer Science (Informatics). I maintained #1 GPA in my year for my first two semesters and earned a scholarship because of that. I also prepared a project for the *Tudományos Diákköri Konferencia* conference.

2014 - 2018 • "Benedek Elek Pedagógiai Líceum"

An English-Hungarian bilingual Science class. While attending high school, I was successful in various county- and nation-level competitions in Mathematics and English.

Programming Skills

★ Android Development

Java • Kotlin • OOP • Clean Architecture • MVP • MVVM • Scrum • Agile • IOT • Retrofit • Dependency Injection • Dagger2 • Room DB • Glide • RxJava • LiveData • Coroutines • Test-Driven
I got into Android to write a Todo List application for my personal use. During my 2020 intership, I learned OkHttp requests, Koin dependency injection, and Room databases. Since then I've honed my skills working on apps for managing connected IoT devices.

★ Python Scripting and Data Science

Selenium • BeautifulSoup • Django • Pandas • SQLite3 • Numpy • Scikit-learn • Matplotlib • PyQt • PyGame • Pynput • Subprocess • Unittest • Automation • Data Science
Python 3 is my tool of choice for both small scripts and larger personal projects.

★ Linux

Ubuntu • Debian • Arch Linux • Systemd • Bash Shell • Vim • Servers • SSH • Troubleshooting
I daily-drive Linux on my personal computers. It's complete with Qtile (a Tiling Window Manager), Vim (a text editor), and various scripts I wrote to speed up my workflow. Many of my configuration files (dotfiles) can be found on my Github. I'm comfortable in a terminal and have recovered broken systems a few times. I use Arch btw.

★ C/C++

I learned C++ in 2014 and used it as my main programming language before switching to Python and Java/Kotlin. I also learned Object-Oriented Programming.

★ SQL

I use SQLite in my Python projects. In the past, I used MySQL databases in a website's backend.

★ HTML/CSS/JS

I maintain my personal website. I also created some templates for the flashcard tool Anki.

☆ Flutter (Dart)

I completed a course in Cross-platform development using Flutter and created a sample app.

☆ Rust

I contributed to an open-source project written in Rust once.

Soft Skills

★ Git

I made an effort to learn how Git works (beyond the most common commands) and use it regularly as my Version Control System.

★ Agile/Scrum

I've worked in a handful of Scrum teams, and I got familiar with the process. I occasionally facilitated discussions and organized meetings myself.

★ Public Speaking

I enjoy giving presentations and addressing a crowd. I presented various projects at my university, my progress at work, and occasionally had educational talks.

★ LaTeX

I can use LaTeX for documents and scientific papers. This CV was written in it! The template is public on my Github.

★ Office Suite

I am familiar with LibreOffice Writer, Calc, and Impress. I can also use alternatives such as Google Docs or Microsoft Office, particularly Excel.

★ Adobe Creative Cloud

I have experience in Lightroom, Illustrator, After Effects, and Animate (formerly Flash). I am an advanced user of Photoshop.

☆ Cybersecurity

I'm interested in the security of data, encryption, networks, hacking incidents, and how to defend against them.

☆ Marketing

I took a Digital Marketing course once.

Languages

★ Hungarian • Native

Magyar az anyanyelvem, így nem jelent gondot a használata.

★ English • Advanced

I am C1 level certified, with plans to do the C2 exam.

★ German • Intermediate

Ich habe Deutsch an der Universität studiert. Ich übe weiterhin in meiner Freizeit.

★ Romanian • Intermediate

Locuiesc în România și folosesc des limba.

☆ Japanese • Beginner

日本語が少し話せます